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	Total	N-Clones (208F-FE-8)	T-Clones (FE8-208F)
Number of sequenced cDNA clones	1257	669	588
Number of individual sequences	823	416	407
Sequence analysis			
Known genes (nr/Genbank)	427	207	220
Expressed Sequence Tags (dbest)	303	161	142
No similarity in data bases (new)	93	48	45
Expression analysis: Reverse Northern Analysis/conventional Northern Blot			
Differentially expressed	393	225	168
Known genes	244	126	118
Expressed sequence tags	104	74	30
New sequences	45	25	20
Not differentially expressed	194	86	108
Not detectable in expression analysis	236	105	131

**FIG. 1**



Genes that are adjusted down by H-Ras-transformation

Sequence Identity (Genbank/EMBL)	Species	Access Number	Extent of Redundancy	Adjust-ment	Veri-fication	Signalling Molecule	Sequence Identity (Genbank/EMBL)	Species	Access Number	Extent of Redundancy	Adjust-ment	Veri-fication
3',5'-cyclic AMP phosphodiesterase	r	222867	1	>100	N1		AKAP-KL (A kinase anchor protein)	m	AF03276	1	16.1	T1,R
AhR repressor	m	AB015140	1	38.0	R	B61 (eck receptor ligand)	r	D38056	1	5.2	T2	
cAMP-dependent protein kinase type II	r	M12492	1	>100	R	c-Hn-ras-1	h	V00574	1	17.0	T3	
CSF-1 (colony stimulating factor-1)	r	M84361	2	5.6	N2,R	c-yes	m	X67677	1	12.5	T4	
Gas-6	m	X59846	1	24.0	R	Calmodulin-dependent protein kinase II-delta	r	J05072	1	8.1	R	
Guanine nucleotide-binding protein G-s alpha	r	M12673	1	3.6	N3	Cyclooxygenase I	r	U03388	1	90.7	T5,R	
I-TRAF (TRAF-interacting protein)	m	MMU59864	1	38.6	N4	Cytocentrin=Ral-binding protein 1	r	U28830	1	8.3	T6	
IKK-complex-associated protein (IKAP)	h	AF014195	1	8.6	R	FKBP51 (T-cell specific immunophilin)	m	U16959	1	68.2	T7	
MARCKS	m	M60474	2	3.3	N5	FLIP (FLICE-like inhibitory protein)	m	U97016	2	>100	T8	
MST2 kinase	r	A7001529	2	21.6	R	GEF-H1	h	U72206	1	32.1	T9	
Myo-inositol monophosphatase (IMP-P5 protein)	r	U84038	1	44.5	N6	GTP-binding protein RAB5	r	AF072935	1	>100	T10	
Phosducin-like protein (PhLP)	ha	X62678	1	3.4	R	JAK1 protein-tyrosine kinase 1	r	AJ000556	1	55.0	T11	
Phosphatidylinositol 3-kinase p110 beta	r	L15354	2	>100	N7,R	MAP-kinase phosphatase (cpg21)	r	AF013144	1	27.9	T12,R	
Phosphatidylinositol 3-kinase p110 alpha	h	S67334	1	>100	N8	p67 (isoprenylated 67 kDa protein)	r	N80367	1	98.2	T13	
Protein tyrosine phosphatase delta (MPTPd)	m	U55772	1	65.9	N9,R	Phosphatase 2A B56	h	I42373	2	50.6	T14	
ROK alpha	m	D13903	1	1.9	R	PKB kinase	r	Y15748	1	19.9	T15	
Serum inducible kinase (SNK)	r	U38481	1	26.1	N10	R-esp2	r	L14463	1	>100	T16	
SH3 binding protein (SAB)	m	M96163	1	>100	N11,R	Rap1B GTP binding protein	r	U07795	1	21.0	T17	
	h	AB005047	1	3.5	R	Ras-GTPase-activating protein	m	AB001927	1	9.9	T18	
						RhoC	m	X80638	2	6.7	R	
						SBF1 phosphatase	h	U93181	1	27.1	T19,R	
						Sproucy 2 (SPRY2)	h	AF039843	2	11.60	T20,R	
						TDAG51	m	U44088	1	2.7	T21	
						Tyrosine phosphatase IA-2a	r	D38222	1	12.2	T22	

FIG. 2



Nuclear Proteins (Transcription Factors, DNA Processing Enzymes)						
ANNAK nucleoprotein	h	M80902	2	>100	N12	Alpha-prothymosin
ATP-dependent RNA helicase	m	U46690	1	8.9	N13	BRCA1-associated RING domain protein (Bard1)
BRG-1 (brahma homolog)	m	SG8108	1	13.1	N14	cdc-like-kinase (clk)
CCAAT/enhancer binding (C/EBP gamma)	r	X64403	1	16.6	N15	FEN-1 (Flap endonuclease-1)
Cdc21	m	D26089	1	3.9	R	Fra-1 (fos-related antigen 1)
Centromeric protein CENPC	m	U03113	1	39.2	N16,R	Histone acetyltransferase (GCN5)
Chromosome-associated polypeptide C (CAP-C)	h	AB019887	1	9.6	R	hNop56 nucleolar protein
DNA polymerase epsilon	h	AF036899	1	5.1	R	LAPIC (lamina-associated polypeptide 1C)
DNA repair protein RAD50	m	U66887	1	3.4	N17,R	Myb-binding protein (P160)
ERS1 transcription factor	h	U17163	1	9.6	N18	NF-1 transcription factor
ETF TEA domain containing transcription factor	m	D50563	1	7.4	N19	p100 transcriptional coactivator
Gu binding protein	h	U78524	1	41.7	N20	PEB2b2
HBC retinoblastoma-associated protein	h	AF017790	1	3.9	N21,R	RB (retinoblastoma protein)
Helicase p68 (HUMP68)	h	AF013812	2	>100	N22,R	SA-1 (stromal antigen)
Histone H3.3	h	248950	2	5.8	R	
Ki-67 antigen	m	X827886	1	>100	N23,R	
LAP2 (Lamina associated polypeptide 2)	r	U18314	4	>100	N24,R	
Mouse zinc finger protein	m	D45210	1	5.6	N25	
mTFF3 (X-linked transcriptional activator)	m	S76673	1	3.6	R	
Nuclear autoantigen GS2NA	h	U17989	1	31.9	R	
Nucleoporin 155	h	A0007558	1	15.2	N26	
Poly(ADP-ribose) glycohydrolase (HPARG)	m	AF079557	1	2.4	R	
Rnf4 transcription factor	m	U95141	2	64.9	R	
Single strand DNA-binding protein	h	AF077048	1	4.9	R	
STAT5a transcription factor	r	U24175	1	1.8	N27	
Topoisomerase I	m	D10061	1	20.1	R	
Topoisomerase II	r	Z19552	3	2.1	R	
Protein Processing, Protein Transport and Protein-folding Molecule						
26S proteasome subunit p55	h	AB003103	1	3.5	N28	Aminopeptidase P (APP)
GRP94/endoplasmic	m	S69316	1	2.2	R	Chaperonin containing TCP-1 epsilon (CCT)
Heat shock protein 105	m	D67016	1	15.1	N29	Exportin
Heat shock protein 90	h	X15183	1	4.8	N30,R	GRP75

**FIG. 2A**



MG-160 (Golgi apparatus sialoglycoprotein)	r	U08136	1	2.3	R		
Rsec6	r	U32575	1	56.0	R		
Translocation protein-1	c, h	D87127	1	>100	N31		
					N32		
3-beta-hydroxysteroid dehydrogenase isomerase	r	S63167	4	5.0	R		
3-hydroxy 3-methylglutaryl coenzyme A synthase	r	X52625	2	12.7	R		
Aldehyde dehydrogenase	r	J03637	1	37.8	N33		
Alpha-mannosidase II	m	X61172	1	6.3	R		
Antioxidant enzyme AOE372	m	U96746	1	1.8	N34		
APB6 (acetaminophen-binding protein)	m	S56599	1	58.7	R		
Apobee-1 binding protein 1	h	U7613	1	>100	N35		
CaBP1 (calcium binding protein)	r	X79328	2	4.7	N36		
Calcium channel beta subunit-III	r	M88751	1	18.8	N37		
Dihydropyrimidinase related protein-3	h	D78014	1	2.3	R		
Glutamine synthetase	r	M91652	3	10.4	R		
NADH dehydrogenase chain 5	r	X14848	1	2.5	R		
NADH dehydrogenase chain 6	r	X11220	1	5.3	R		
NADP transhydrogenase	m	249204	1	12.3	N38		
Phosphatidate phosphohydrolase type 2	r	U90556	1	6.2	N39		
Selenoprotein P	r	M63574	2	31.8	N40		
HAUSP (herpes ass. ubiquitin-specific protease)	h	272499	1	28.8	R		
Importin alpha Q1	m	AF020771	1	10.6	R		
MPPB (mitochondrial processing peptidase beta)	r	L12965	1	4.3	R		
Ran-GTPase	m	S83456	1	19.7	T37		
Sec61	r	M98630	2	29.2	T38, R		
Sort1 (sortilin)	h	X98248	1	10.5	T39		
Translation initiation factor 3	h	U94855	1	5.7	T40, R		
<b>Metabolic Enzymes, Transporters and Ion Channels</b>							
4F2he intestinal type II membrane glycoprotein	r	U59324	4	2.9	T41		
ABC transporter MOAT-B	h	AF071202	1	10.8	T42, R		
Acyl-CoA synthetase 1	r	D30666	1	4.1	R		
Aldehyde reductase	r	D10854	1	4.0	T43		
Asparagine synthetase	r	D07201	4	15.3	R		
ATP citrate-lyase	r	J05210	2	3.1	R		
Bleomycin hydrolase	r	D87336	2	8.5	T44, R		
CIC-6a (chloride channel)	h	X99473	1	19.6	R		
Farnesyl pyrophosphate synthetase	r	M34477	2	3.3	T45, R		
Glucose-6-phosphate dehydrogenase	r	X07467	1	2.4	R		
Glutathione reductase	r	U73174	1	2.7	T46, R		
GLVR-1 (leukemia virus receptor 1)	m	M73696	2	22.2	R		
MCT1 monocarboxylate transporter	r	X86216	1	7.5	R		
Mitochondrial trifunctional protein	r	DI6478	1	2.4	T47		
Non-neuronal enolase (NNE)	r	X02610	5	2.5	R		
NPC-1 protein	m	AF003348	1	3.1	R		
Phosphoglycerate mutase type B	r	S63233	4	5.6	R		
Stenoyl-CoA desaturase 2	r	AF036761	1	7.5	R		
Transcript ass. with monocyte differentiation	h	X85750	1	8.2	T48		
Transporter protein (g17)	h	U49082	1	4.2	R		
X-chromosome linked phosphoglycerate kinase	r	M31788	1	2.9	R		

**FIG. 2B**



Cytoskeleton Components-Molecule Involved in Adhesion and Cell-Cell Interaction

ABP-280 (actin-binding protein/filamin)	h	X53416	1	5.8	R	Arp3 (actin-related protein 3)	h	AF006083	3	3.3	T49,R
Alpha-actin	r	X06801	5	4.2	R	Calcium-binding protein pp52/LSP1/WP34	m	M89956	2	29.7	T50,R
Cadherin-11	m	X77557	1	11.7	R	Calponin	r	U06755	1	5.2	R
Caldesmon	r	U18419	3	37.7	N41	CD44 glycoprotein	r	M61875	1	17.0	T51,R
Cytokeratin-2	r	U70728	1	>100	N42	Laminin receptor	m	J02870	5	4.1	R
Gas-1	m	X65128	1	10.4	R	Leukocyte adhesion protein p150, 95	h	Y00093	2	5.2	R
HSPG core fibroglycan (syndecan-2)	r	M81687	1	61.9	N43,R	MAGE-B gene cluster	h	U93163	2	15.3	T52
huENAP microtubule associated protein	h	NN004434	1	26.9	N44	Myosin regulatory light chain	r	D14688	1	6.9	R
MIC-2	r	S77900	2	2.6	N45,R	TAL oncofetal gene	r	U00995	2	1.9	T53
p-cadherin	m	X06340	1	60.1	N46	Thymosin beta 4	r	M34013	1	2.4	T54,R
Podoplanin	r	U96449	1	9.4	R						
Ryudocan	r	S61868	6	27.7	N47,R						
Tropomyosin 4	r	Y00169	1	7.8	N48,R						
TRPM-2/clusterin	r	M64723	1	39.4	N49						
Vimentin	r	X62952	1	1.6	R						

Extracellular Proteins

Collagen alpha1	r	Z78279	34	22.3	R	MMP-1 (Collagenase)	r	M60616	19	>100	T55,R
Cyr61 (immediate-early gene)	m	M32490	4	16.0	N50,R	MMP-3 (Stromelysin 1)	r	X02601	7	32.3	T56,R
Entactin/Nidogen	m	X14194	14	35.8	N51	MMP-10 (Stromelysin 2)	m	X05083	12	33.8	R
Fibrillin-1 (Fn1)	m	U22493	1	3.3	R	Mob-1	r	U17035	2	2.4	T57,R
Fibronectin	r	X15906	25	>100	N52	Testin	m	X78990	1	8.9	T58
FISP-12	m	M70642	2	49.4	N53						
Follistatin-related protein; TSC-36	r	U06864	5	2.0	N54,R						
Laminin B1	m	M15525	1	5.0	R						
Lysyl oxidase	r	U11038	14	9.2	R						
Lysyl oxidase-related protein (WS9-14)	h	U89942	1	59.2	N55,R						
Megakaryocyte potentiating factor	m	D86370	3	6.0	N56						
MGF (mast cell growth factor)	m	U44725	1	13.4	N57						
MMP-2 (Gelatinase A)	r	U65656	3	50.6	N58,R						
Thrombospondin 1	m	M62470	25	42.5	R						
TIMP-2 (inhibitor of metalloproteinase 2)	r	S72594	1	18.3	N59,R						

FIG. 2C



Others									
AAC11 (anti-apoptotic gene)	h	U83857	2	3.1	N60	Annexin IV	m	U72941	1
Ania-6 (acititvity and neurotransmitter-ind. gene 6)	r	AF030091	1	10.2	R	B-cell receptor associated protein 37 (BAP 37)	m	X78683	2
Antipin	h	S74728	2	7.4	N61,R	BC-2 proteine p32	h	AF042384	1
ATP-dependent metalloprotease FtsH1	m	AF190430	1	21.3	R	BCSC-1 (breast cancer suppressor candidate 1)	h	AF002672	1
CBP20 (CAP-binding protein)	h	X80157	2	5.0	R	BP-1(similar to Lysyl hydroxylase isoform 3)	r	M18864.	1
Collapsin-2	c	U28240	1	>10.0	N62	C29 keratin-1-related	m	AB013607	1
DOC-2;p96 Phosphoprotein	r	U95177	1	>10.0	N63,R	Calmodulin (RCM)	r	M19312	2
EL24 (p53 responsive gene)	m	U41751	4	5.5	N64	ELB 19K/Ecl-2-binding protein homolog (Nip3)	m	AF041054	1
eIF-4AI protein synthesis initiation factor	m	X56953	1	3.9	R	Fls353 activated in colon tumors	h	AB024704	1
H411 precursor	ha	AF046870	1	>10.0	N65	Glycyl-tRNA synthetase	h	U09510	1
Interferon induced gene	r	X61381	1	>10.0	N66	HR1HFB2216 rat fetal brain gene	r	AB015345	1
KIAA0045 (myeloblast)	h	D28476	1	16.3	R	Insulinoma Gene (rig)	r	U09510	1
KIAA0128 (myeloblast)	h	D50918	1	33.8	R	KE04P protein	h	M19393	1
KIAA0235 (myeloblast)	h	D87078	1	4.8	R	KIAA0013 (myeloblast)	h	AF064093	1
KIAA0259 (myeloblast)	h	D87448	1	3.6	R	KIAA0310 (brain)	h	DS7717	1
KIAA0332 (brain)	h	AB002330	1	20.8	R	KIAA0431 (brain)	h	AB002308	1
L1 retroposon (ORF2)	r	X53581	5	20.2	R	KIAA0525 (brain)	h	AB007891	1
LxRN3 (LINE 1 repetitive sequence)	r	M60824	1	26.2	R	KIAA0544 (brain)	h	AB011097	1
Mana gene	r	AF065438	1	14.5	N67	KIAA0595 (brain)	h	AB011116	1
Osteoglycin	m	D31951	5	2.7	R	KIAA0597 (brain)	h	AB011167	1
p53BP2 (p53binding protein)	m	U59881	1	10.3	R	LIM protein FHL2	m	AB011169	1
PBP2a1	m	D14636	1	38.4	N68	LIM-protein FHL3	h	AF055889	1
phem2 (maternal embryonic message gene 2)	m	X95350	1	29.4	N69	MAM domain protein	x	U60116	1
SEFR7 splicing factor	h	L41887	2	10.4	R	Mu-calpain large subunit (cls1)	r	XUJ37376	1
WDMM2	r	X17464	1	>10.0	N70	Neuritin	r	RN088958	1
Zinc-finger domain-containing protein	h	U90654	1	7.8	R	ORP150(150 kDa oxygen regulated protein)	r	U41853	1
ZNF216 zinc finger protein	m	AF062071	1	6.7	R	PhD finger protein 2 (PHE2)	h	NM_0053921	2.1

FIG. 2D



### Expressed Sequence Tags (EST)

Down-adjusted ESTs	Up-adjusted ESTs	New Sequences
ESTAA003402	ESTAA67673	ESTAA67476
ESTAA028510	ESTAA276806	ESTAA681418
ESTAA033320	ESTAA266358	ESTAA710096
ESTAA067238	ESTAA289129	ESTAA722531
ESTAA086516	ESTAA312927	ESTAA726511
ESTAA122792	ESTAA399748	ESTAA734740
ESTAA153720	ESTAA412823	ESTAA743557
ESTAA154450	ESTAA462855	ESTAA752120
ESTAA161894	ESTAA497642	ESTAA759531
ESTAA163325	ESTAA516974	ESTAA764153
ESTAA163144	ESTAA517260	ESTAA789552
ESTAA170629	ESTAA517339	ESTAA793073
ESTAA200452	ESTAA521112	ESTAA799190
ESTAA203784	ESTAA575650	ESTAA800749
ESTAA245968	ESTAA589518	ESTAA800908
ESTAA266966	ESTAA607513	ESTAA801125
ESTAA267114	ESTAA646710	ESTAA811802
ESTAA268366	ESTAA667811	ESTAA819247
ESTAA270146	ESTAA674143	ESTAA851788
		ESTAA066174
		ESTAA079499
		ESTAA082063
		ESTAA417685
		ESTAA410739
		ESTAA571144
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		ESTAA616986
		ESTAA792426
		ESTH76796
		ESTHSAC001070
		ESTAA800034
		ESTW20810
		ESTW65969
		ESTAA801415
		ESTAA847689
		ESTAA895012
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		ESTAA891266
		ESTAA924000

FIG. 2E



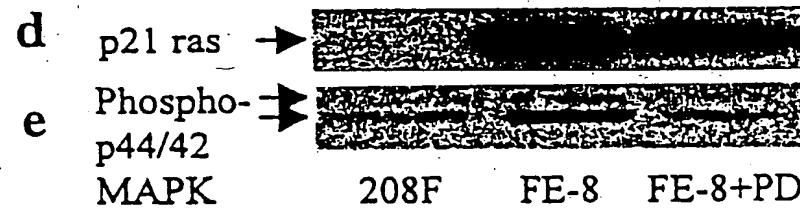
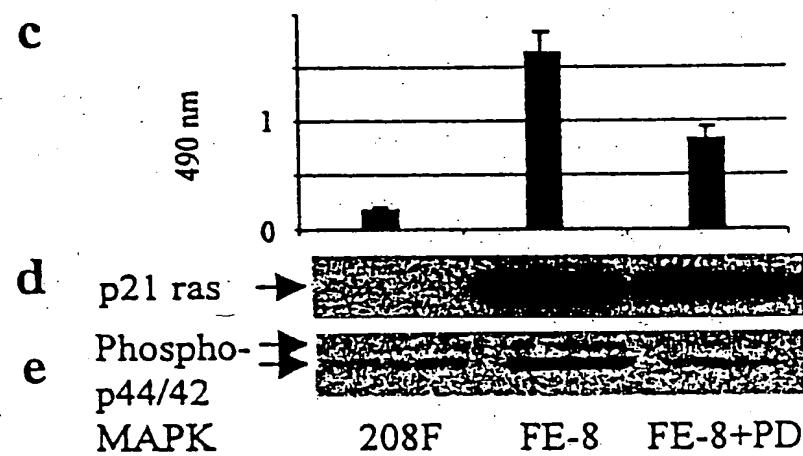
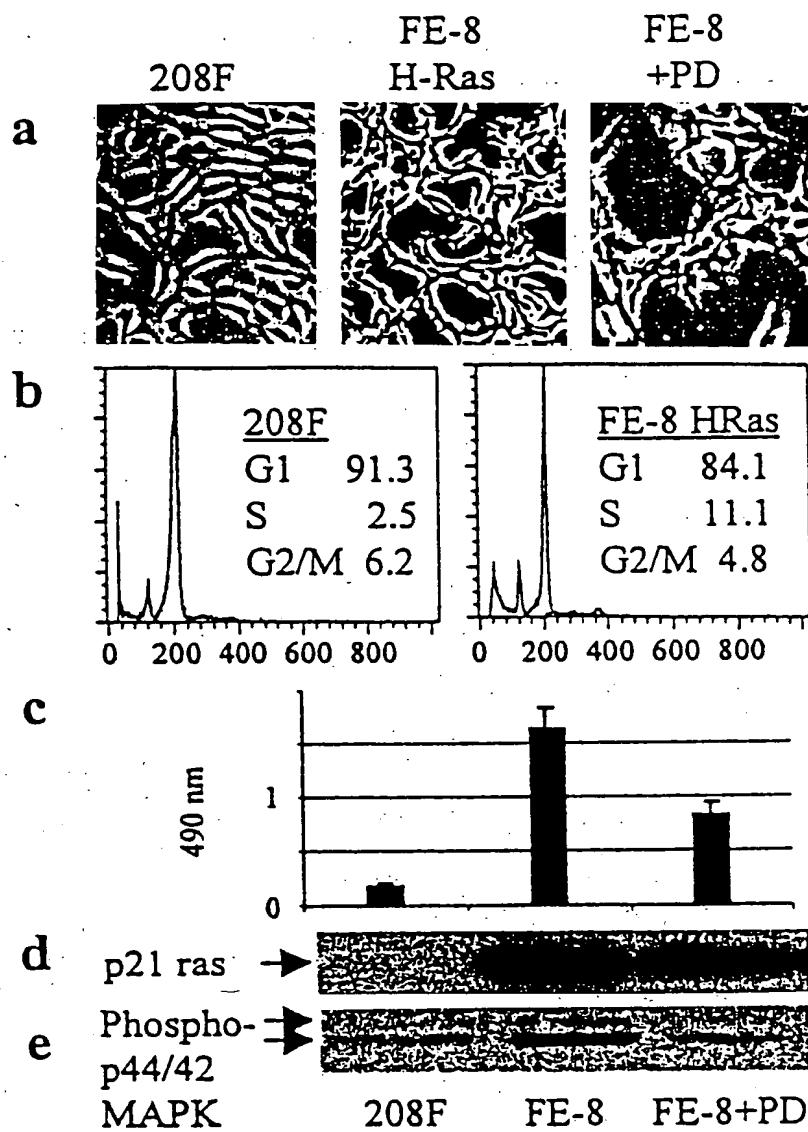
Sequence Identity (Genbank/EMBL)	Expression Strength				Sequence Identity (Genbank/EMBL)				Expression Strength			
	208F	FE8	FE8 +PD	208F	FE8	FE8 +PD	208F	FE8	FE8 +PD	208F	FE8	FE8 +PD
3-hydroxy 3-methylglutaryl coA synthase	+++	+	+++	+++	BRCA1-associated RING protein (Bard1)	+	+++	++	+++	0	++	+
ABP-280 (actin binding protein/filamin)	+++	++	+++	+++	EB 19K/Bcl-2-binding protein (Nip3)	0	+++	++	+++	0	+++	++
Alpha-actinin	+++	+	+++	+	Exportin	+	+++	++	+++	+	+++	++
Antioxidant enzyme AOE372	++	+	++	0	FRN-1 (flap endonuclease-1)	0	+++	+	+++	0	+++	+
AP56 (acetaminophen-binding protein)	++	0	++	0	FRBP51 (T-cell specific immunophilin)	0	+++	+	+++	0	++	0
Cdc21	+++	0	++	0	FLIP (FLICE-like inhibitory protein)	0	++	+	+++	+	++	+
Centromeric protein CENPC (a)	+++	+	+++	0	GEF-H1	0	+++	0	+++	0	+++	0
Collagen alpha 1	+++	+	+++	0	LAPIC (lamina associated polypeptide 1)	0	+++	+	+++	0	+++	+
CSF-1 (colony stimulating factor 1)	++	0	++	0	MAM domain protein	0	+++	+	+++	+	+++	+
DOC-2; p96 phosphoprotein	++	0	++	0	MAP-kinase phosphatase (cpg21); (c)	0	+++	+	+++	0	+++	+
ERS1 transcription factor	+++	+	++	+	MMP-10 (Stromelysin-2) (d)	0	+++	0	+++	0	+++	0
ETF transcription factor	+++	0	++	+	MMP-3 (Stromelysin-1)	0	+++	+	+++	+	+++	+
Fibronectin	+++	+	+++	+	Myb-binding protein (p160)	0	++	0	++	0	++	0
Pollistatin-related protein; TSC36	++	+	+++	+	NF-1 transcription factor	+	+++	+	+++	+	+++	+
GRP94/endoplasmic	+++	0	+	+	Non-neuronal enolase (NNE)	+	+++	+	+++	+	+++	+
Gu binding protein	+++	0	++	+	ORBP150 (150 kDa oxygen regulated)	0	+++	+	+++	0	+++	+
Heat shock protein 90	++	0	++	0	p67 (isoprenylated 67 kDa protein)	0	++	0	++	0	++	+
HSPG core fibroglycan (syndecan-2)	+++	0	++	0	PKB kinase	0	+++	+	+++	+	+++	+
Interferon induced gene	+++	0	++	0	Rap1B GTP binding protein (e)	0	+++	+	+++	0	+++	+
L1 retropon (ORF2)	+++	+	++	+	Ras-GTPase-activating protein	0	+++	+	+++	0	+++	+
Laminin B1	+++	0	+	+	Rsc3 (rat spinocerebellar ataxia gene)	0	++	+	++	0	++	+
Lysyl oxidase	++	0	+	+	SA-1 (stromal antigen)	0	0	++	++	0	++	++
Lysyl oxidase-related protein (WS9-14)	++	0	+	+	Sortilin (Sortilin)	0	0	++	++	0	++	++
Mama gene	+++	0	++	+	TSG101 (tumor susceptibility protein)	++	++	++	++	++	++	++
MMP-2 (Gelatinase A)	++	+	++	0	Nuclear autoantigen GS2NA	++	++	++	++	++	++	++
mTFF3 (transcriptional activator)	++	0	++	+	Osteoglycin	++	++	++	++	++	++	++
Nuclear autoantigen GS2NA	++	0	++	+	P5 protein	++	++	++	++	++	++	++
Osteoglycin	++	+	++	+	P-cadherin	++	0	+	++	0	++	+
P5 protein	++	0	++	+	Phosducin-like protein (PhLP)	++	0	++	++	0	++	+
P-cadherin	++	0	++	+	Serum inducible kinase (SNK)	++	0	++	++	0	++	+
Phosducin	++	0	++	+	STAT5a transcription factor	++	0	+	++	0	++	+
Serum inducible kinase	++	0	++	+	Thrombospondin 1	++	+	++	++	0	++	++
STAT5a transcription factor	++	0	++	+	TIMP-2 (inhibitor of metalloproteinase 2)	++	+	++	++	0	++	++
Thrombospondin 1	++	+	++	+	TRPM-2/clusterin (b)	++	+	++	++	0	++	++

FIG. 3

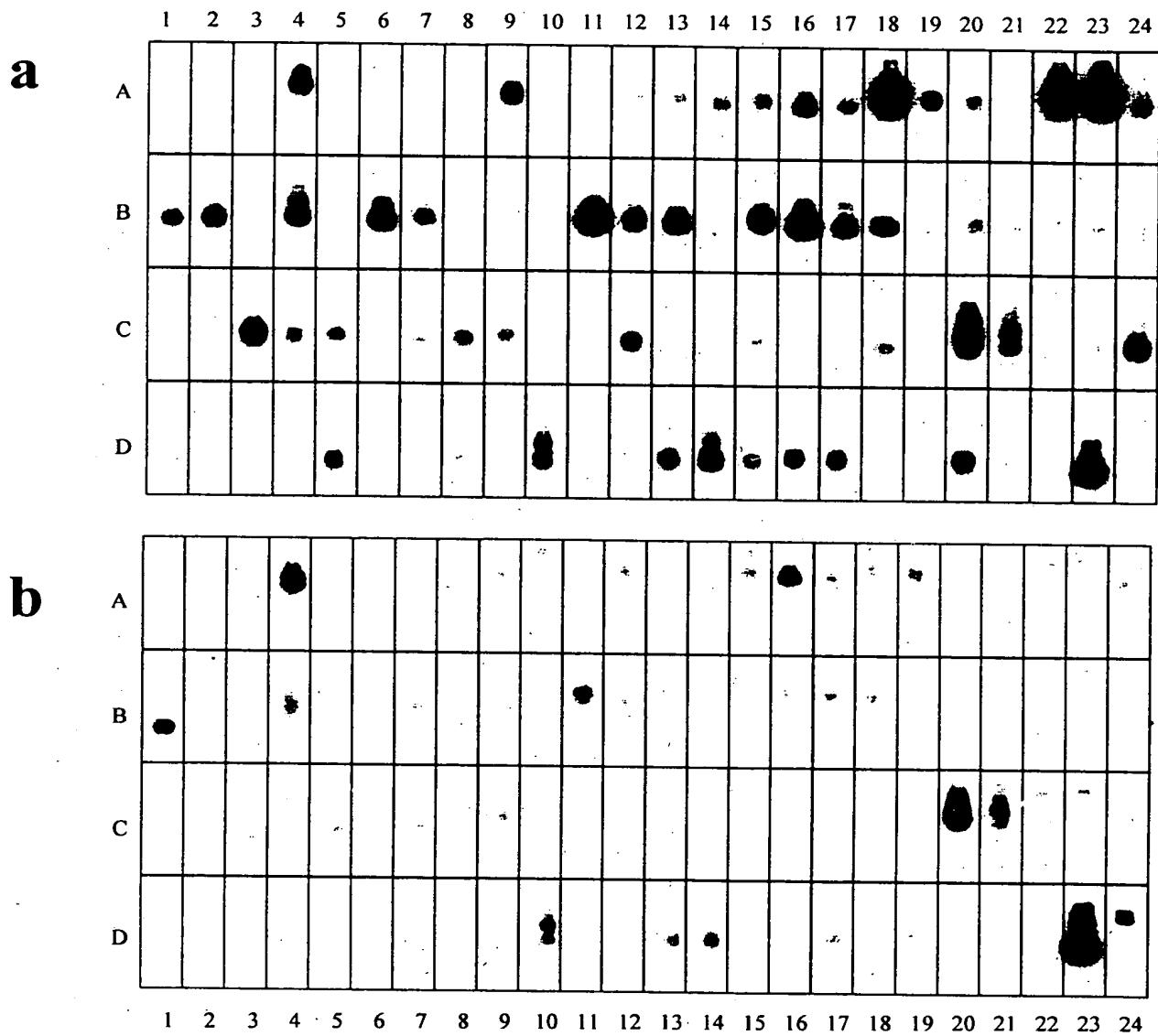


Sequence Identity (Genbank/EMBL)	Expression Strength			
	208F H-Ras	FE-8 K-Ras	208F N-Ras	208F
ABC transporter MOAT-B	0	++++	0	+
BCSC-1 (breast cancer suppressor candidate 1)	+	++++	0	+
Cyclooxygenase 1	+	++++	+	+++
E1B 19K/Bcl-2-binding protein (Nip3)	0	++	++++	++
EST AA743557	++++	+	0	++
EST AA792426	+	++++	+	++
EST AA924000	+	++++	+	++
ETF TEA domain containing transcription factor	++++	0	++	++
Farnesyl pyrophosphate synthetase	+	+++	0	+
FEN-1 (flap endonuclease-1)	0	++++	+	0
FLIP (FLICE-like inhibitory protein)	0	+	++	++++
JAK1 protein tyrosine kinase 1	0	++++	0	0
MAGE-B gene cluster	0	++	+++	++++
MAP-kinase phosphatase (cpg21)	++++	0	+	+++
MARCKS	0	++	++	++++
MMP-10 (Stromelysin 2)	0	++++	++	+
Mob-1 (f)	++++	0	+	+
mTFE3 (X-linked transcriptional activator)	+	++++	++	++
Myb-binding protein (P160)	++++	0	++	++++
novel transcript N317	++++	0	0	++
P-cadherin (g)	+++	0	+	++
Phosphatidylinositol 3-kinase p170	0	++++	0	0
Ras-GTPase-activating protein	0	++++	+	+
SBF1 phosphatase	++++	0	++	++
Serum inducible kinase (SNK) (h)	0	++++	0	++
Tyrosine phosphatase IA-2a (i)	0	++++	0	++

FIG. 4



**FIG. 5**



**FIG. 6**

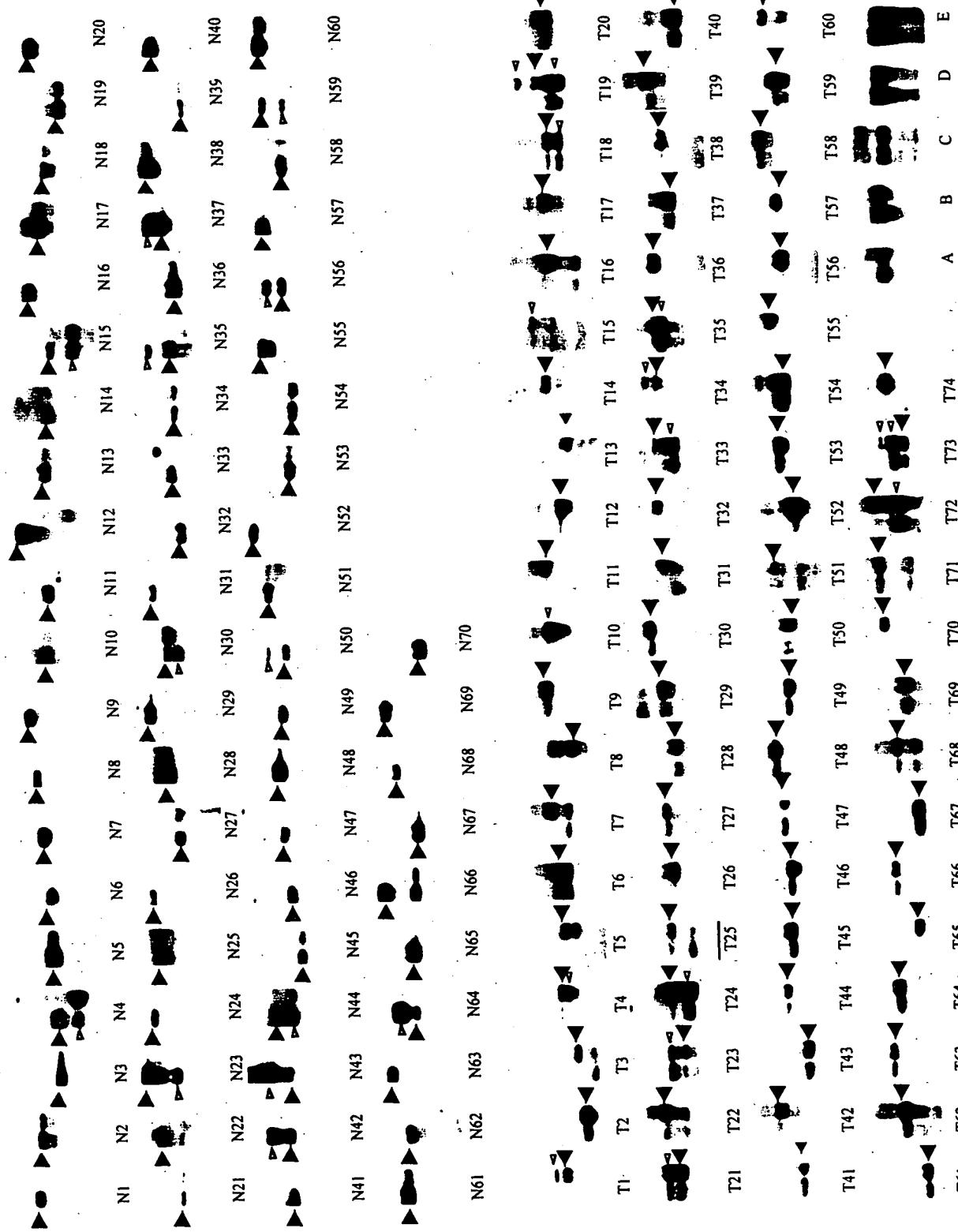
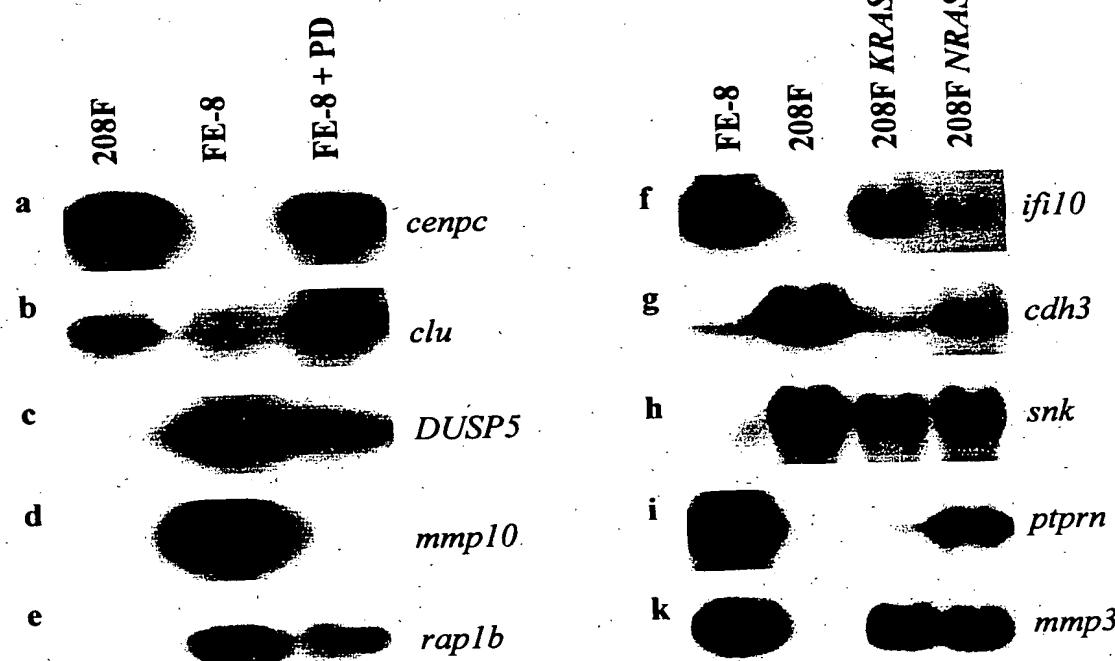
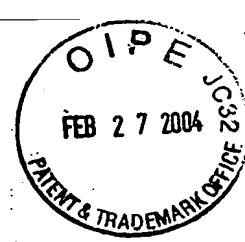
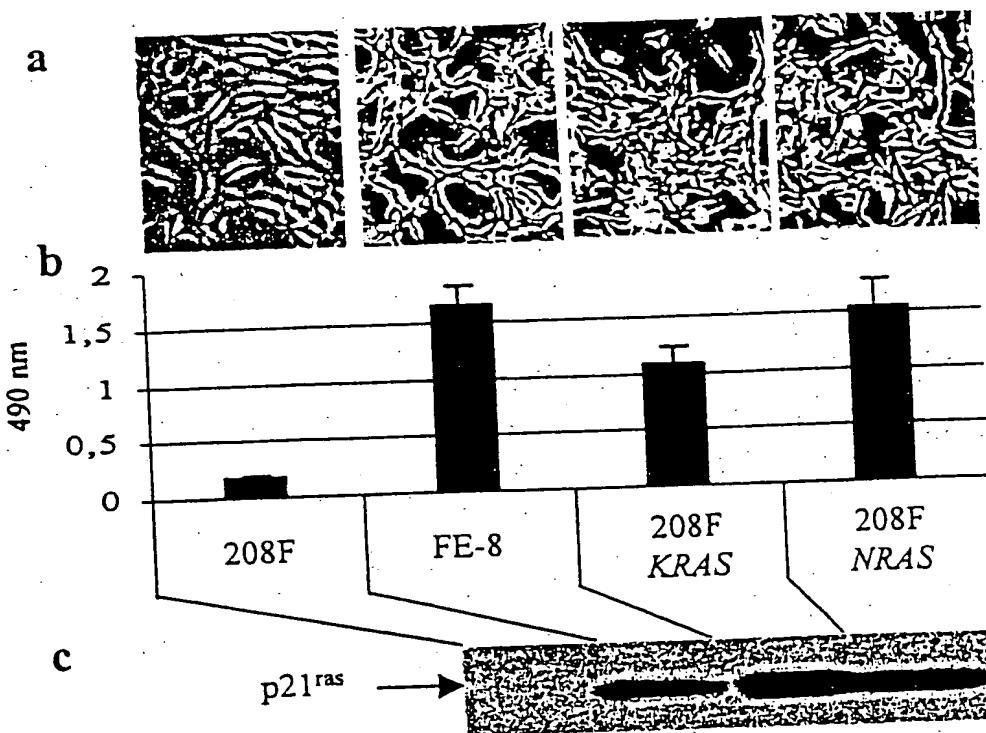


FIG. 7



**FIG. 8**



**FIG. 9**

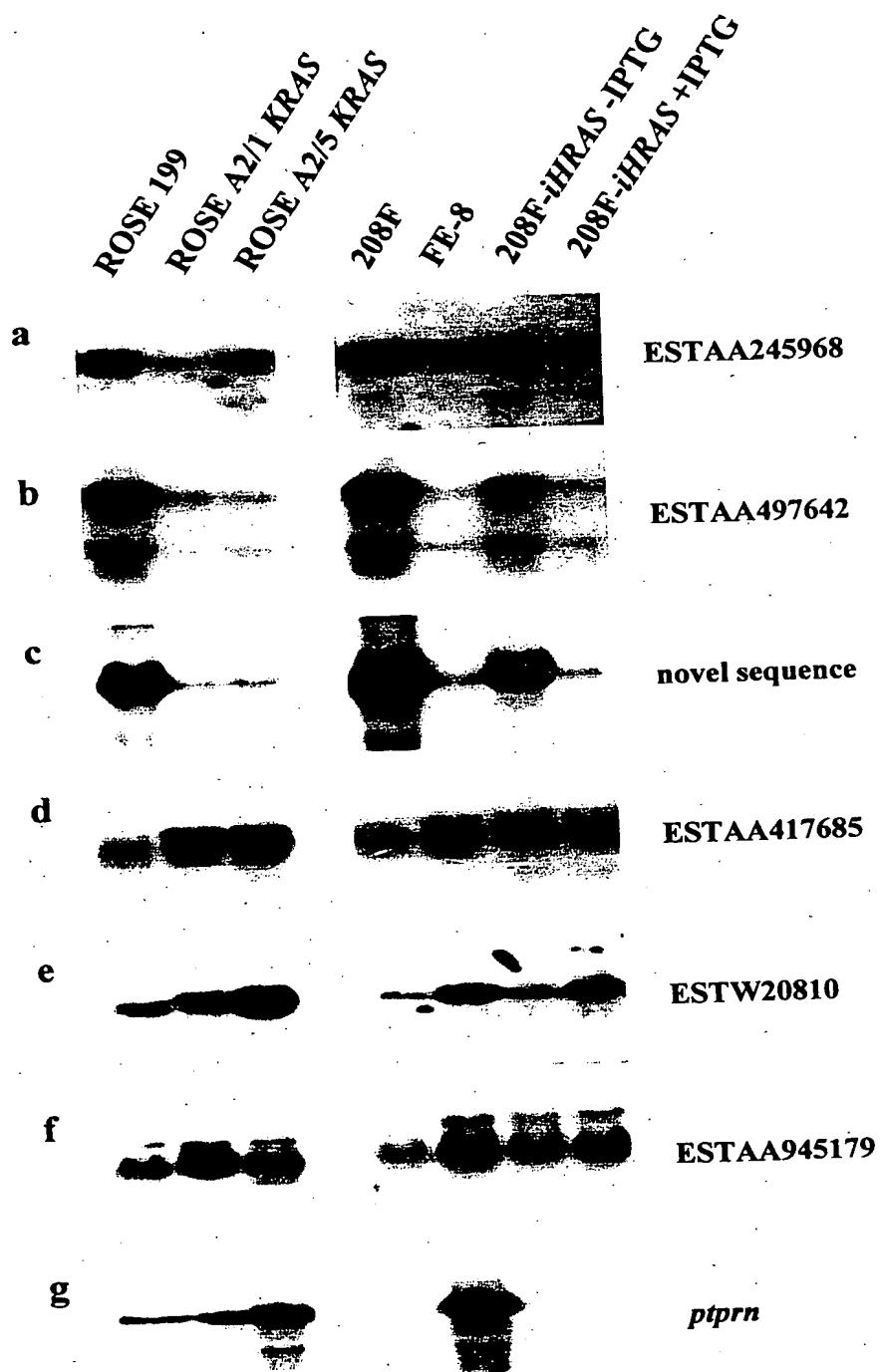
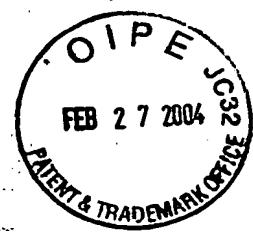


FIG. 10



1 T59  
2 T182  
3 T82  
4 T6  
5 T34  
6 N5  
7 N20  
8 N280  
9 N271  
10 N126  
11 T148  
12 N199  
13 T64  
14 N131  
15 T20  
16 T162  
17 T141  
18 N77  
19 N104  
20 T49  
21 T16  
22 N189  
23 N28  
24 T124  
25 T216  
26 T60  
27 T37  
28 T160  
29 N101  
30 N40  
31 T54  
32 T120  
33 N159  
34 T185  
35 N151  
36 T147  
37 N188  
38 T25  
39 T47  
40 T43  
41 T139  
42 T176  
43 N144  
44 T35  
45 T98  
46 T15  
47 T138  
48 N21  
49 T76  
50 T103  
51 T143  
52 T44  
53 N31  
54 T243  
55 N129  
56 T193  
57 T132  
58 T137  
59 T217  
60 T191  
61 N42  
62 T156  
63 T67

**FIG. 11**



64	N196
65	T21
66	N34
67	N134
68	T119
69	N36
70	N209
71	N256
72	T105
73	T75
74	T153
75	T189
76	T86
77	T111
78	T144
79	N192
80	N103
81	N270
82	N255
83	N61
84	N137
85	T174
86	N22
87	T2
88	T237
89	T19
90	N156
91	N59
92	N235
92	N248
92	N249
92	N252
92	N257
93	T38
94	T121
95	N10
96	T129
97	T66
98	T36
99	T40
100	N1
101	N212
102	T100
103	N112
104	N3
105	N238
106	T183
107	T238
108	T166
109	N29
110	T225
111	N175
112	N142
113	T72
114	N186
115	T212
116	T196
117	T48
118	N132
119	N158
120	T69
121	N7
122	T245

**FIG. 11A**



123	N102
124	T208
125	N44
126	T205
127	T215
128	N283
129	T226
130	T253
131	T222
132	N264
133	T240
134	N70
135	T125
136	N253
137	N234
138	N55
139	N202
140	N82
141	T45
142	T118
143	T10
144	N71
145	N183
146	N165
147	N213
148	N35
149	N182
150	N43
151	N75
152	T163
153	T89
154	N11
155	N32
156	T50
157	N215
158	N242
159	N181
160	N48
161	T227
162	N149
163	N109
164	N260
165	T219
166	T61
167	N85
168	N45
169	T250
170	N261
171	T172
172	N62
173	N160
174	N154
175	N58
176	T232
177	N128
178	N79
179	T58
180	N30
181	T68
182	T244
182	T251
183	T96
	N26

**FIG. 11B**



184	N14
185	N121
186	T17
187	T3
188	T117
189	T14
190	T73
191	N4
192	N289
193	T239
194	T170
195	T146
196	N17
197	T235
198	N74
199	N18
200	T211
201	T186
201	T204
202	N50
203	N116
204	T223
205	N198
206	N267
207	T133
208	T80
209	N218
210	N266
211	T224
212	N148
213	N108
214	N263
215	N250
216	N92
217	N152
218	T11
219	T159
220	N243
221	N78
222	T116
223	T27
224	N207
225	T31
226	N38
227	N163
228	N81
229	T94
230	N228
231	N80
232	T230
233	T188
234	N180
235	N187
236	N136
237	N294
238	N275
239	N65
240	N89
241	N125
242	N205
243	N39
244	N13
245	T48

**FIG. 11C**



246	T100
247	T223
248	N104
249	N35
250	T245
251	N32
252	T62
253	N125
254	N180
255	N22
256	T61
257	T125
258	T174
259	T36
260	T19
261	T204
262	T153
263	T27
264	T212
265	T159
266	T226
267	T239
268	N263
269	T66
270	N75
271	N250
272	T175
273	N283
274	T40
275	N152
276	N256
277	N28
278	T160
279	T82
280	N122
281	T170
282	N44
283	N18
284	T103
285	N126
286	N55
287	T42
288	T34
289	N158
290	N21
291	N154
292	N80
293	T189
294	T17
295	T68
296	T14
297	T146
298	T120
299	N181
300	N192
301	T109
302	N215
303	T244
303	T251
304	T96
305	T211
306	T243
307	N218

**FIG. 11D**



308	T224
309	T94
310	T183
311	N294
312	T191
313	T88
314	T9
315	N204
316	N175
317	N129
318	T141
319	N188
320	N209
321	T111
322	T144
323	N213
324	N109
325	N62
326	T235
327	N198
328	N148
329	N78
330	T116
331	N46
332	N49
333	N51
334	N52
335	T26

**FIG. 11E**